

Package: rosmosis (via r-universe)

March 24, 2025

Title Helper Functions to Download and Run Osmosis

Version 0.0.0.9000

Description Allows one to download and run Osmosis from R. Osmosis is a command line application for processing OpenStreetMap data which consists of several different pluggable components that can be chained to perform large operations. The package currently does not aim to offer functions that covers the entirety of Osmosis' API, and instead offers limited support to running Osmosis through a helper function.

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URL <https://github.com/dhersch/rosmosis>

BugReports <https://github.com/dhersch/rosmosis/issues>

Imports checkmate, fs, httr2, processx, rlang, tools, zip

Suggests covr, ggplot2, rmarkdown, sf, testthat (>= 3.0.0)

Config/testthat/edition 3

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.2.3

Config/pak/sysreqs make libssl-dev

Repository <https://dhersch.r-universe.dev>

RemoteUrl <https://github.com/dhersch/rosmosis>

RemoteRef HEAD

RemoteSha 6750bf40ec70de1edced04071c3e505e39c2bb5a

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|------------------|-------------------------|
| download_osmosis | <i>Download Osmosis</i> |
|------------------|-------------------------|

Description

Downloads Osmosis, a command-line application for processing OpenStreetMap data.

Usage

```
download_osmosis(version = "0.48.3", force = FALSE, quiet = TRUE)
```

Arguments

| | |
|---------|--|
| version | A string. The version of Osmosis to be downloaded. Defaults to "0.48.3", the current latest version. Please check openstreetmap/osmosis releases for the full set of available versions. |
| force | A logical. Whether to overwrite previously downloaded and cached Osmosis. Defaults to FALSE. |
| quiet | A logical. Whether to hide informative messages or not. Defaults to TRUE. |

Value

Invisibly returns the path to Osmosis.

Examples

```
download_osmosis()
```

| | |
|--------------|-------------------------|
| osmosis_path | <i>Get Osmosis path</i> |
|--------------|-------------------------|

Description

Returns the path to previously downloaded and cached Osmosis. If it has not been downloaded yet, downloads it using [download_osmosis\(\)](#).

Usage

```
osmosis_path(version = "0.48.3", force = FALSE, quiet = TRUE)
```

Arguments

| | |
|---------|---|
| version | A string. The version of Osmosis whose path should be returned. Defaults to "0.48.3", the current latest version. Please check openstreetmap/osmosis releases for the full set of available versions. |
| force | A logical. Passed to <code>download_osmosis()</code> , whether to overwrite previously downloaded and cached Osmosis. Defaults to FALSE. |
| quiet | A logical. Passed to <code>download_osmosis()</code> , whether to hide informative messages or not. Defaults to TRUE. |

Value

A string, the path to Osmosis.

Examples

```
osmosis_path()
```

```
run_osmosis
```

```
Run Osmosis
```

Description

Runs Osmosis, given the path to the application and the commands that should be sent to the command-line tool.

Usage

```
run_osmosis(osmosis_path, command, echo = TRUE, spinner = TRUE)
```

Arguments

| | |
|--------------|---|
| osmosis_path | A string. The path to Osmosis. |
| command | A string. The command to run. |
| echo | A logical. Whether to print the standard output and error to the screen. Defaults to TRUE. |
| spinner | A logical. Whether to show a reassuring spinner while the process is running. Defaults to TRUE. |

Value

Invisibly returns a list containing the exit status of the Osmosis process, the standard output of the command, the standard error of the command and whether the process was killed due to a timeout.

Examples

```
cur_osm <- system.file("extdata/cur.osm.pbf", package = "rosmosis")

fs::file_size(cur_osm)

# cropping the pbf using a bounding box

output_path <- tempfile("cropped_cur", fileext = ".osm.pbf")

osmosis_command <- paste0(
  "--read-pbf ", cur_osm, " ",
  "--bounding-box ",
  "top=-25.4290 left=-49.2792 bottom=-25.4394 right=-49.2629 ",
  "completeWays=yes ",
  "--write-pbf ", output_path
)

run_osmosis(osmosis_path(), osmosis_command, echo = FALSE, spinner = FALSE)
fs::file_size(output_path)
```

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